Srijay Mundlur

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Objective

- Enhance my full-stack development skills and apply them in real world scenarios

Education: Bachelor of Applied Science in Mechatronics Engineering, University of Waterloo, (2026)

Technical Skills

- Proficient in JavaScript, C++, Java, HTML, CSS, Tailwind CSS, React, Node.js, Git
- Semi-Proficient in Python and MATLAB
- Proficient with AutoCAD and SolidWorks

Work Experience

Software Engineer – Andie Connected Technologies (January 2023 – April 2023)

- Developed and maintained multiple web applications using React.js, Tailwind CSS, HTML, and Node.js
- Worked with third-party APIs to integrate external services into the Andie web application improving user experience
- Improved webpage performance by optimizing load sequences to reduce load times by up to 68%
- Connected the front-end to the back-end data for the Andie web application using RESTful APIs
- Discussed webpage layouts with various departments to improve webpage readability

Junior CAD Drafter – CBM GROUP (May 2022 – August 2022)

- Implemented markups of plumbing, electrical and HVAC systems into architectural drawings in AutoCAD
- Calculated flow rates for plumbing systems and selected appropriate diameter piping
- Improved drafting efficiency by streamlining the markup to drafting process between coworkers

Teaching Assistant – ZEBRA ROBOTICS (June 2018 – June 2021)

- Helped teach and mentor an FLL team through the competition to the provincial level
- Planned lessons and activities to teach elementary and middle school students about robotics
- Taught students about line following color detection and programming with Lego EV3 robots

Related Side Projects

Python Django & React Employee Dashboard

- Developed the frontend and backend with Django and React for an employee management system
- Implemented the ability to track employees and departments currently operating within a company

Pinterest Website Clone

- Using Visual Studio Code, developed a website using React, HTML and CSS that mimics popular photo sharing platform Pinterest
- Implemented the ability to add, remove and link photos of varying sizes

Java Obstacle Avoidance Game

- Developed a GUI game using Java Abstract Window Toolkit where the player controls a sprite while avoiding moving obstacles
- Implemented custom sprites and high score feature to improve user experience

Other Experience

University Of Waterloo Midnight Sun – Team Member (October 2021 – Present)

- Preformed CFD simulations to find drag coefficients of possible body designs
- Created SolidWorks models for different push rod suspension designs

Senior Mechanical Captain – FIRST ROBOTICS COMPETITION (September 2019 – June 2021)

- Led and optimized the construction of the team's 100+ pound robot
- Utilized Microsoft Word, Excel, and PowerPoint to manage and teach members about mechanical design
- Machined and manufactured various component designs from CAD drawings to build complex mechanisms such as cascading elevators and claws to improve robot efficiency

Awards and Recognition

- Actively Participated and won awards in various hackathons
- Represented Canada as part of the Canadian National World Robotic Olympiad team in India and Thailand (2016, 2018)